



04-29-2005



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Form PTO-101  
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OMB No. 0651-0027 (exp. 5/31/2002)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kai Liu  
Richard Kommrusch

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 1/21/05; and 1/24/05

2. Name and address of receiving party(ies)

Name: TDK Corporation

Internal Address: \_\_\_\_\_

Street Address: 1-13-1, Nihonbashi, Chuo-ku,  
Tokyo 103-8272, JAPAN

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional name(s) & address(es) attached?  Yes  No

4.26.05

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
11/029,664

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Allen J. Moss

Internal Address: Squire, Sanders & Dempsey LLP

Street Address: Two Renaissance Square  
40 North Central Avenue, Suite 2700

City: Phoenix State: AZ Zip: 85004-4498

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

19-3878

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Allen J. Moss, Reg. No. 38,567

Name of Person Signing

Signature

Date

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Mail documents to be recorded with required cover sheet information to:  
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04/27/2005 DTESSEM1 00000064 11029664

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40.00 DP

PATENT  
REEL: 016497 FRAME: 0693

## ASSIGNMENT

**WHEREAS**, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR") of the address(es) indicated below, has/have invented MULTIPLEXERS EMPLOYING BANDPASS-FILTER ARCHITECTURES for which application for Letters Patent of the United States [ ] has been executed on even date herewith [ x ] was filed as U.S. Application No. 11/029,664 on January 4, 2005;


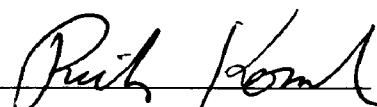
**AND WHEREAS**, TDK Corporation (hereinafter "ASSIGNEE"), [ x ] a corporation organized and existing under and by virtue of the laws of Japan [ ] a partnership [ ] a sole proprietor/individual, having its principal place of business at 1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272, JAPAN, is desirous of acquiring an interest therein;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign, and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under all international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner for Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives.

**AND HEREBY AGREES** to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

**AGREEING, FURTHERMORE**, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

Effective as of the later date written below:

<u>INVENTOR'S NAME</u>	<u>ADDRESS</u>	<u>SIGNATURE</u>	<u>DATE</u>
Kai Liu	4125 East Redwood Lane Phoenix, Arizona 85048 US		<u>01/24/2005</u>
Richard Kommrusch	1732 Globe Court Fort Collins, Colorado 80528 US		<u>01/21/05</u>

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RECORDED: 04/26/2005

PATENT  
REEL: 016497 FRAME: 0694